

# **NAD** SERVICE MANUAL

**2240PE**  
**POWER AMPLIFIER**

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-2240PE-

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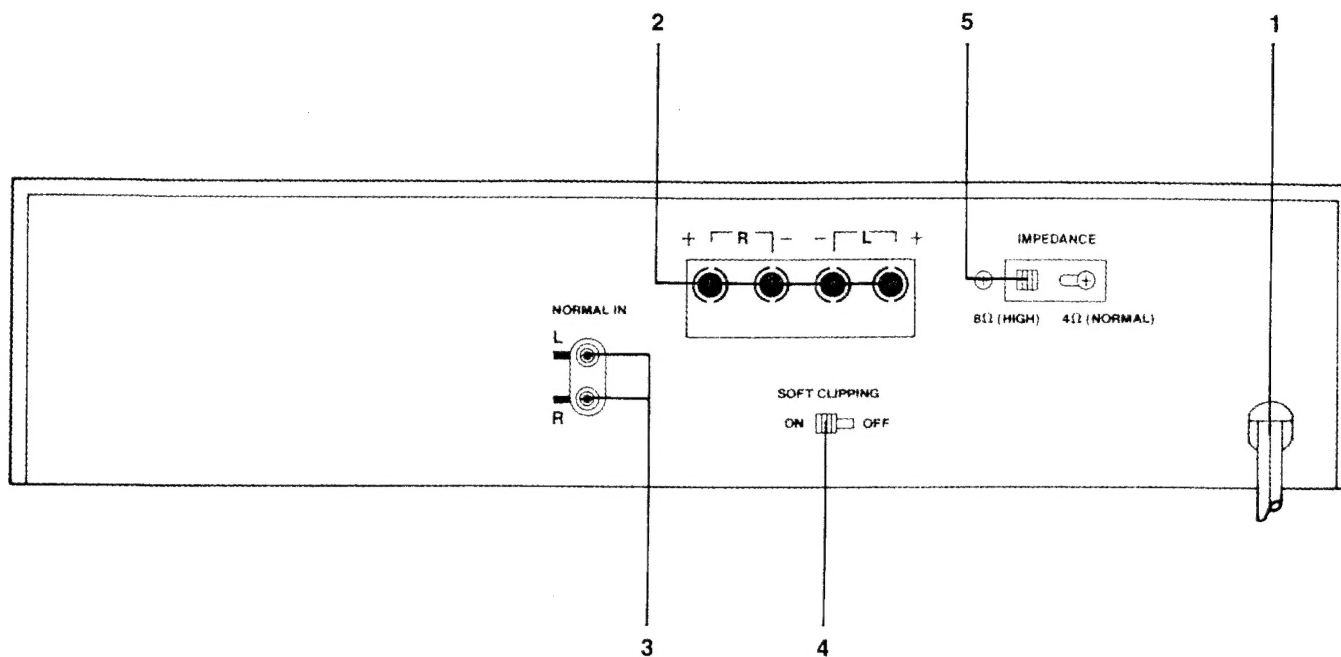
## REAR PANEL

1. AC Line Cord.
2. Speakers.
3. Normal Inputs.
4. Soft Clipping.
5. Speaker Impedance.

### CAUTION

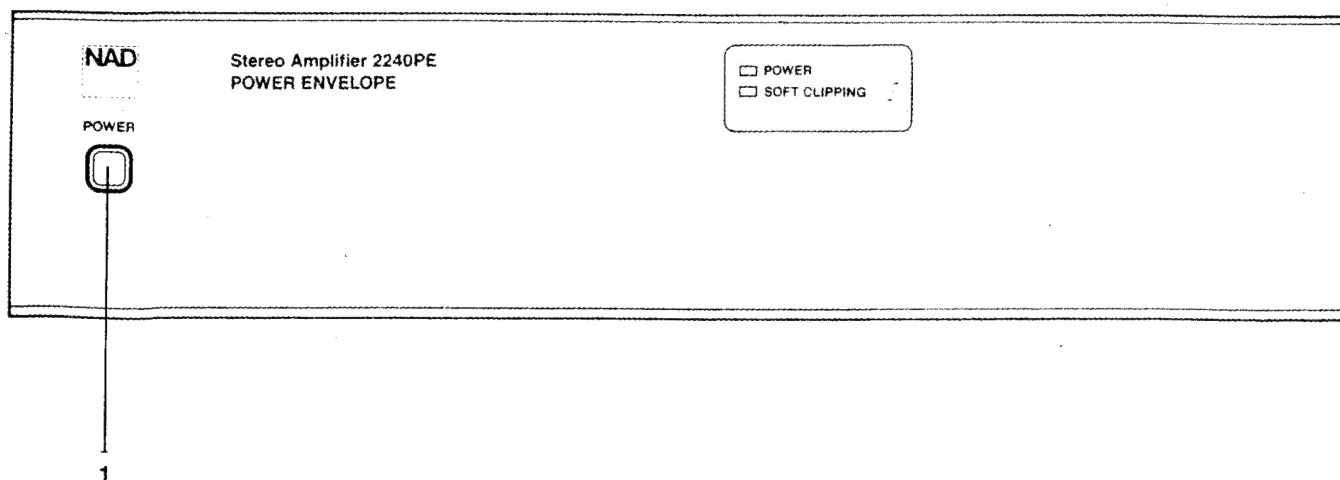
RISK OF ELECTRIC SHOCK  
DO NOT OPEN

CAUTION TO REDUCE  
THE RISK OF ELECTRIC  
SHOCK, DO NOT REMOVE  
COVER (OR BACK).  
NO USER-SERVICEABLE  
PARTS INSIDE. REFER  
SERVICING TO QUALIFIED  
SERVICE PERSONNEL.



## FRONT PANEL

1. Power.



## Specifications

### NAD 2240PE Stereo Amplifier

Note: Specifications are measured in accordance with EIA Standard RS-490 (IHF A-202). Measurements referred to 8 ohm are taken with the Speaker Impedance selector set to 8 ohm (High). Measurements for 4 and 2 ohm are taken with impedance selector at 4 ohm (Normal).

### Power Amplifier Section

#### CONTINUOUS AVERAGE POWER

OUTPUT AT 8 OHM (minimum RMS power per channel, both channels driven, with no more than the rated distortion)	40W(16 dBW)
Rated distortion (THD), 20 Hz - 20 kHz	0.03%
Clipping power, 1 kHz (maximum continuous power per channel)	50 W
Dynamic Headroom at 8 ohm	+6 dB
Dynamic power (maximum short-term power per channel)	8 ohm 160 W 4 ohm 200 W 2 ohm 250 W

#### Damping factor

#### Slew factor

#### Slew rate

#### T.H.D. and SMPTE I.M. distortion from

250 mW to rated output

#### IHF I.M. (CCIF IM) and T.I.M. distortion

at rated output

#### Input impedance

#### Input sensitivity for 1 W<sub>a</sub>/40 W<sub>o</sub> out

#### Power amp gain

#### Low Level (audio muting)

#### Physical Specifications

#### Width x Height x Depth

#### Net Weight

#### Shipping Weight

#### Power Consumption

22 kohm
160 mV/1.0 V
25 dB (18X)
-20 dB
42 x 10.8 x 38 cm.
16.5 x 4.25 x 15 in.
6.425 kg
7.72 kg
50/60 Hz at 110, 120, 220, or 240 VAC
200 W

## ALIGNMENT METHOD

### AUDIO SECTION 2240PE

#### IMPORTANT

Speaker Impedance switch should be in 8 ohm position while adjusting center voltage and idling current.

#### INITIAL ADJUSTMENT (No load connected)

##### A. CENTER VOLTAGE

1. Connect DC millivoltmeter to L channel output terminals.
2. Turn on and adjust to  $0\text{ V} \pm 30\text{mV}$  with VR401 (10KB). Connect DC millivoltmeter to R channel output terminals and adjust VR402 to  $0\text{ V} \pm 30\text{mV}$ .

##### B. IDLING CURRENT

1. Remove solder short across R461 and R462.
2. Connect DC millivoltmeter across R471 (1 ohm) (output transistor's collector resistor) and adjust VR403 (1KB) for 26 - 30mV reading on meter. Repeat adjust with VR404 (1KB), connecting meter across R472 (1 ohm).
3. leave power on for minimum 5 minutes.

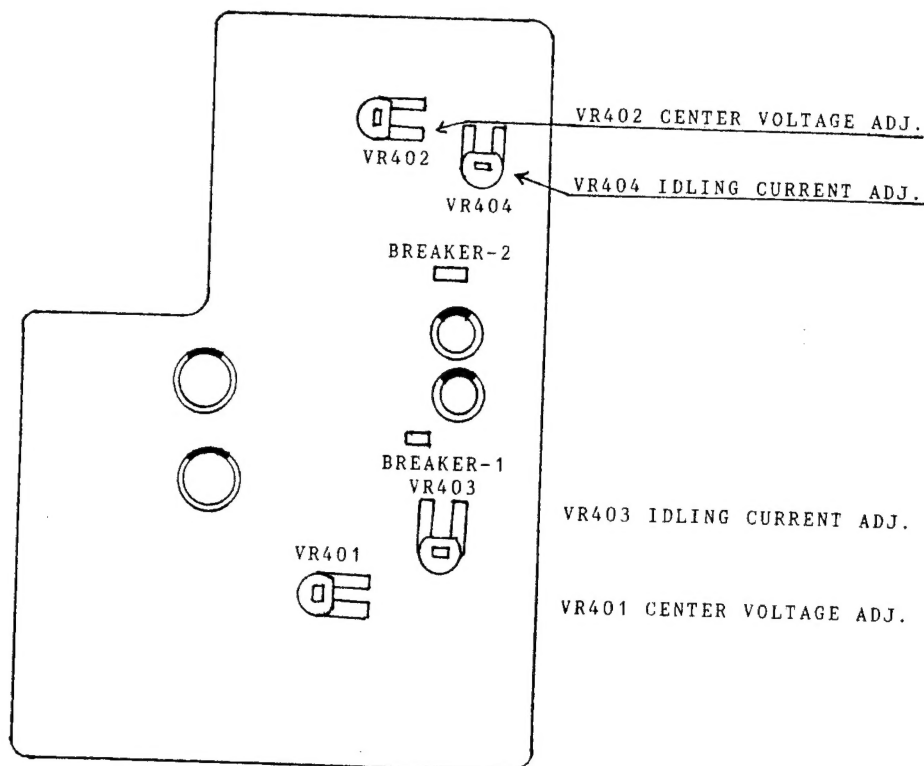
#### FINAL ADJUSTMENT

##### C. CENTER VOLTAGE

1. Repeat step A above.

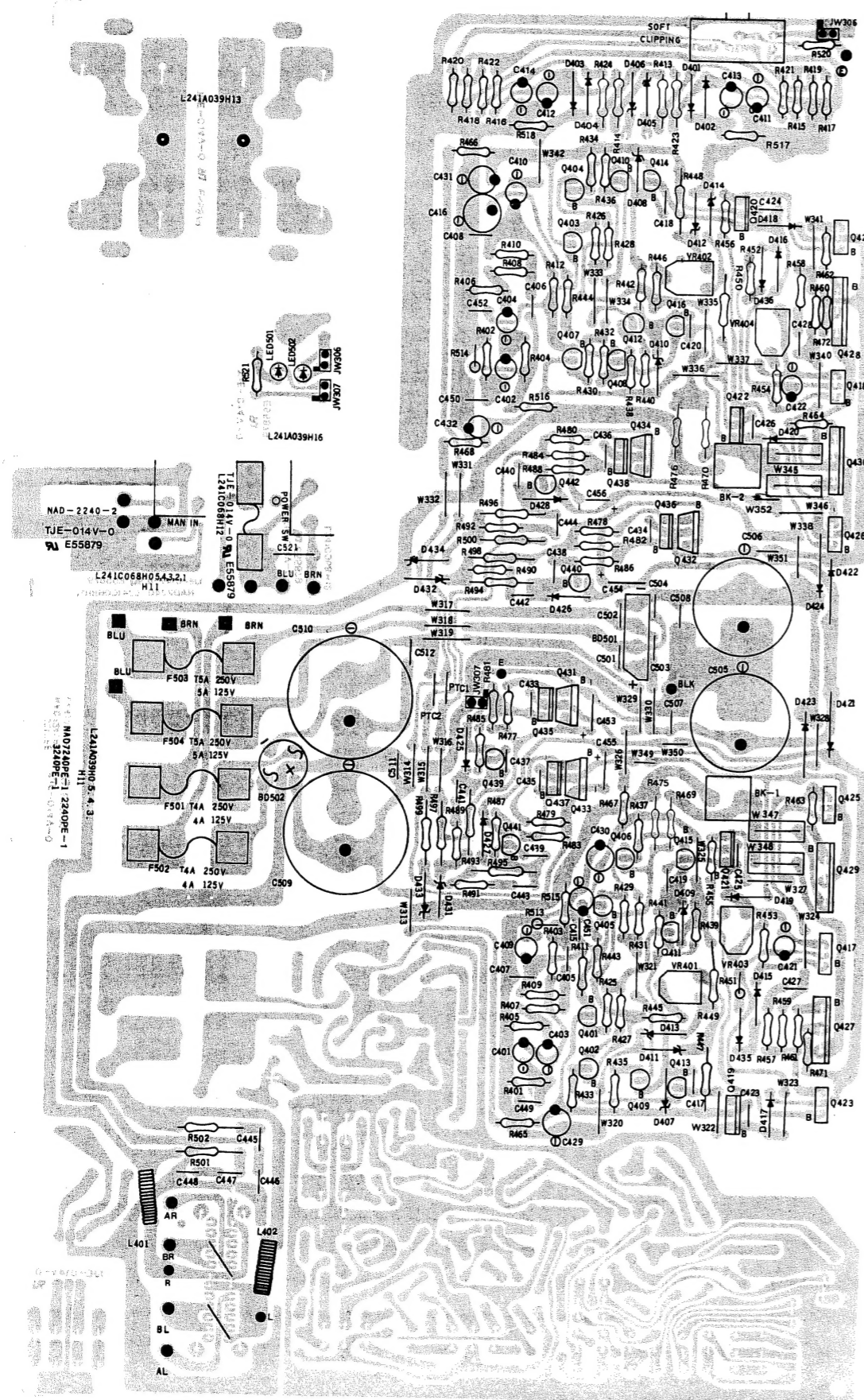
##### D. IDLING CURRENT

1. Repeat step B and adjust with VR403, VR404 for 30mV reading on meter.
2. After the alignment is finished, 1 ohm resistor R471, R472 is shorted by solder short.

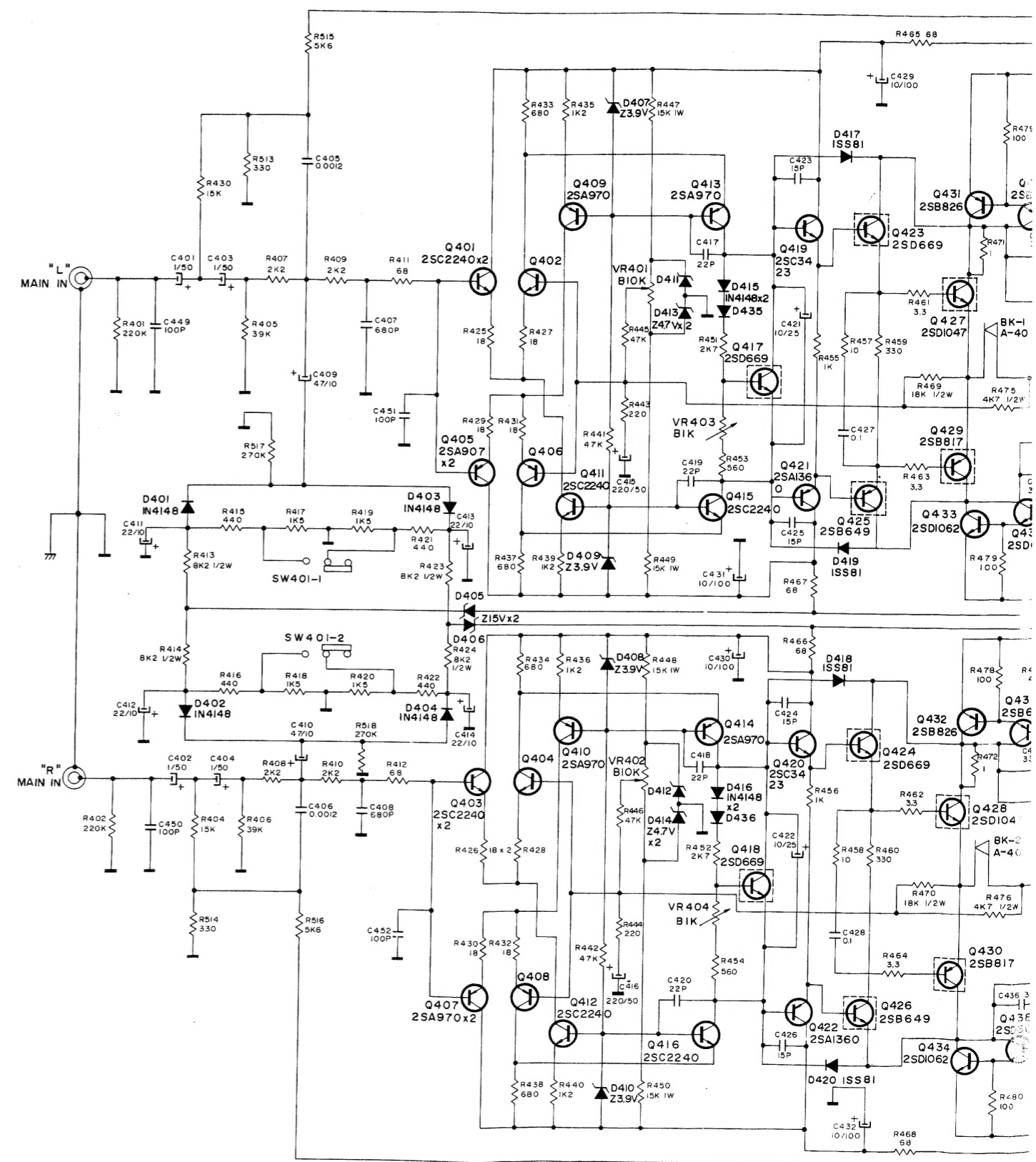


AMPLIFIER ADJUSTMENT POINTS

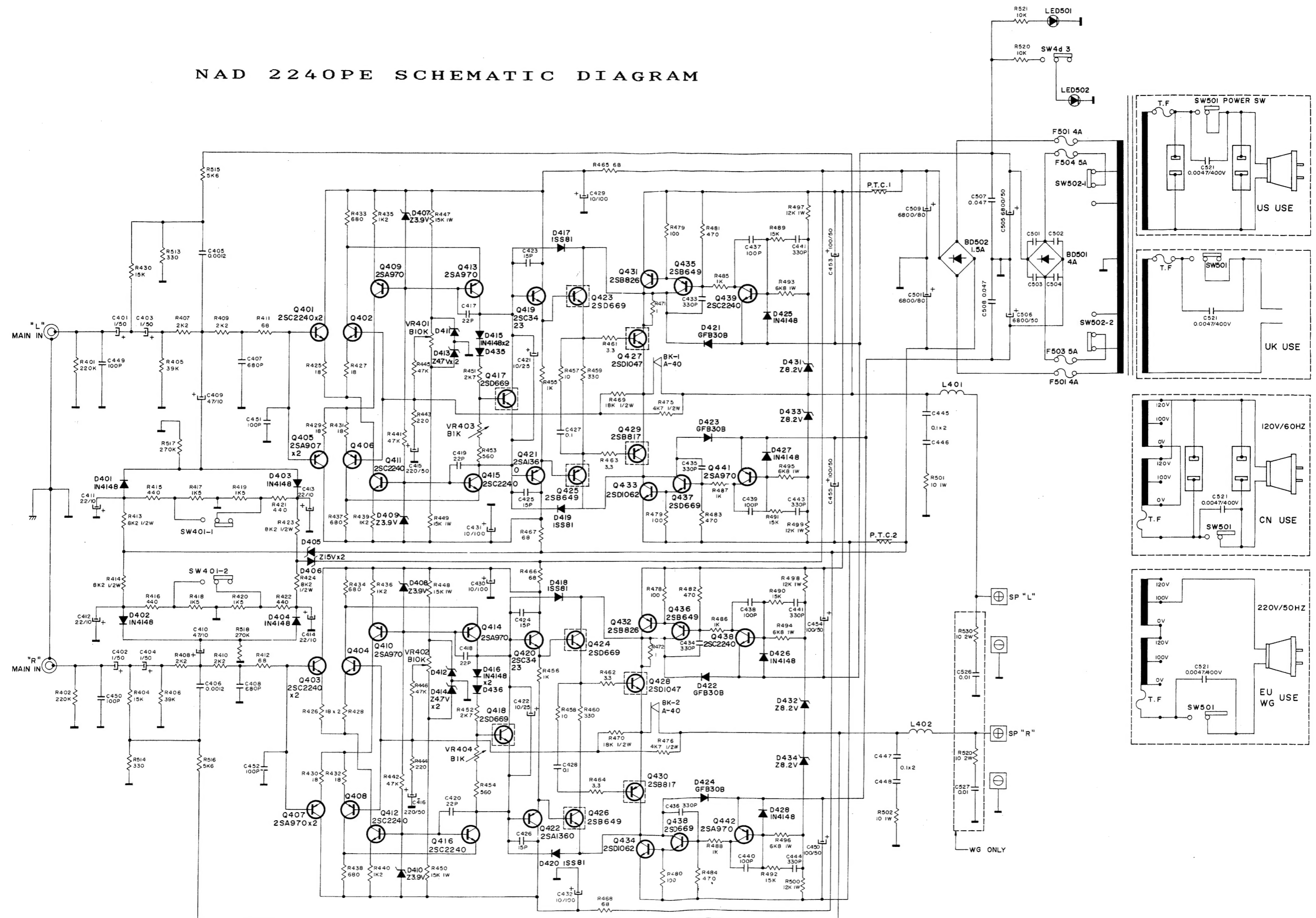
# NAD 2240PE PCB COMPONENT LOCATION



# NAD 2240PE SCHEMATIC DIAGRAM



# NAD 2240PE SCHEMATIC DIAGRAM



## NAD 2240PE PARTS LIST

FR GP UK EU AS SA										PARTS NUMBER		DESCRIPTION		SPECIFICATION Q'TY		UNIT
FR	GP	UK	EU	AS	SA	JP	US	CN	WG	EP	UT	JP				
MAIN-AMP																
PCS							PCS						L902A015G01			PCS
	*						PCS						L902A015G02			PCS
		*					PCS						L902A015G03			PCS
			*				PCS						L902A015G04			PCS
				*			PCS						L902A015G05			PCS
					*		PCS						L902A015G06			PCS
						*	PCS						L902A015G07			PCS
				*			PCS						L902A015G08			PCS
					*		PCS						L902A015G09			PCS
	*						PCS						L923A018G01			PCS
		*					PCS						L923A018G02			PCS
			*				PCS						L923A018G03			PCS
				*			PCS						L923A018G04			PCS
					*		PCS						L923A018G05			PCS
						*	PCS						L923A018G06			PCS
							PCS						L923A018G07			PCS
				*			PCS						L923A018G08			PCS
					*		PCS						L923A018G09			PCS
	*						PCS						L989D042G01			PCS
		*					PCS						L989D042G02			PCS
			*				PCS						L989D042G03			PCS
				*			PCS						L989D042G04			PCS
					*		PCS						L989D042G05			PCS
	*						PCS						L851D054H08			PCS
							PCS						L851D054H09			PCS
							PCS						L851D054H02			PCS
							PCS						L851D054H01			PCS
							PCS						L851D054H05			PCS
							PCS						L851D054H04			PCS
				*			PCS						L851D054H03			PCS
					*		PCS						L851D054H07			PCS
					*		PCS						L851D054H06			PCS
				*			PCS						U096S004H03			PCS
	*						M						TAPE, 750MM*2			PCS
		*					M						30MM*2			PCS
							PCS						W:50			PCS
							PCS						W:12			PCS
							PCS						AC CORD			PCS
							PCS						SET			PCS
							PCS						INDIVIDUAL			PCS
							PCS						PARTS-BAG			PCS
							PCS						BAG-POLY			PCS
							PCS						CARTON-OUTER			PCS
							PCS						CARTON-			PCS
							PCS						STYRO PACKING			PCS
							PCS						SHEET PACKING			PCS

FR	GP	UK	EU	AS	SA	PARTS NUMBER	DESCRIPTION	SPECIFICATION	Q'TY	UNIT
US	CN	WG	EP	UT	JP					
			*			L703B033G50				PCS
			*			L703B033G60				PCS
				*		L703B033G70				PCS
					*	L703B033G80				PCS
					*	L703B033G90				PCS
	*	*	*	*	*	L241B121G01	PCB-POST ASSY			PCS
	*	*	*	*	*	L241B121G02				PCS
	*	*	*	*	*	U650S065H19	SCREW-B, SW*2 POST*4	W3*6	6	PCS
	*	*	*	*	*	U670S003H02	NUT, BIND POST	M3	4	PCS
	*	*	*	*	*	L241C069G01	PCB-RCA JACK	ASSY		PCS
	*	*	*	*	*	U656S164H24	T-SCREW, RCA JACK FTX	1-3*8	2	PCS
	*	*	*	*	*	L582A011H01	COVER-BACK			PCS
		*				L582A011H02				PCS
		*				L582A011H03				PCS
	*	*	*	*	*	L582A011H04				PCS
	*	*	*	*	*	L242Y2501H01	POWER-CORD			PCS
		*				U242C872H06				PCS
		*	*	*	*	U242C809H19				PCS
		*	*	*	*	L242Y013H01				PCS
	*	*	*	*	*	L242C310H01	SOCKET			PCS
	*	*	*	*	*	L449Y002H01	COVER-AC SOCKET			PCS
	*	*	*	*	*	L840D009H01	SW-SLIDE			PCS
	*	*	*	*	*	L431Y013H01				PCS
	*	*	*	*	*	L431Y016G01	AC CORD TAG			PCS
	*	*	*	*	*	L851D069H01				PCS
	*	*	*	*	*	L851D070H01	CLAMPER	BRN	1	PCS
	*	*	*	*	*	L540D501H01	LEAD	BLU	1	PCS
	*	*	*	*	*	U243C421H10				PCS
	*	*	*	*	*	L243C066H28	SOLDER-RESIN		1.6	PCS
	*	*	*	*	*	U053S271H05			0.4	PCS
	*	*	*	*	*	U053S271H05				PCS
	*	*	*	*	*	L703D027H01	SW FIX PLATE			PCS
	*	*	*	*	*	L851B004H08	LABEL-DRP			PCS
	*	*	*	*	*	L452C001G01	TERMINAL-SP	ASSY	1	PCS
	*	*	*	*	*	L452C001G02		ASSY	1	PCS
	*	*	*	*	*	L241A039H13	PCB-AMP, POST USE			PCS
	*	*	*	*	*	L704C013H01	HAND-POST	BLK		PCS
	*	*	*	*	*	L704C013H03		BLK		PCS
	*	*	*	*	*	L704C013H02		RED		PCS
	*	*	*	*	*	L704C013H04		RED		PCS
	*	*	*	*	*	L541B018H01	HOLDER-POST			PCS
	*	*	*	*	*	L685C001H01	POST			PCS
	*	*	*	*	*	L685C002H01	HAND-POST			PCS
	*	*	*	*	*	L680C006H01	WASHER-POST			PCS
	*	*	*	*	*	U670S003H02	NUT			PCS
	*	*	*	*	*	L241C068H01	PCB-SUB	M3	1	PCS
	*	*	*	*	*	L241C068H11	RCA JACK			PCS
	*	*	*	*	*	L440Y016H01	JACK-RCA		1	PCS
	*	*	*	*	*	L242C096H26	LEAD-SHIED	BLU	1	PCS

FR	GP	UK	EU	AS	SA	PARTS NUMBER	DESCRIPTION	SPECIFICATION	Q'TY	UNIT
US	CN	WG	EP	UT	JP					
						L242C076H35	LEAD-SHIELD	BLU	1	PCS
						L242D507H08	LEAD		1	PCS
						L582A001H01	CHASSIS-MAIN		1	PCS
						L851D0071H02	LABEL-WARNING		1	PCS
						U650S063H19	SCREW-B, SW-POWER	M3*6	2	PCS
						L432Y517H01	SW-PUSH		1	PCS
						L230Y005H03	COVER-CAPACITOR		1	PCS
						U140Y007H07	C-CERAMIC, C521	400V 472M	1	PCS
						U243C426H39	LEAD	BLU	1	PCS
						U243C421H34		BRN	1	PCS
						L230Y003H01	CONNECTOR		1	PCS
						L230Y003H01			2	PCS
						U073S722H65	TUBE-VINYL	35 DIA BLK	0.65	M
						L241C068H12	PCB-SUB, POWER SW		1	PCS
						U838S101H03	BANK		18	M/A
						L073S001H23	TUBE-UL, 18MM#1	11 DIA	0.1	G
						L085D002H01	BOND-3M		0.15	M
						U073S722H23	TAPE VINYL		0.6	G
						U085S093H02	LOCK-TIGHT		1	PCS
						L350Y083H01	TRANS-POWER		1	PCS
						L350Y085H01			1	PCS
						L350Y086H01			1	PCS
						L350Y087H01			1	PCS
						L547B005H01	FRAME(L)		1	PCS
						U680S322H04	WASHER-TOOTHED		1	PCS
						U650S063H95	SCREW-B, TRANS FIX		4	PCS
						L230Y003H01	CONNECTOR	M4*5	4	PCS
						L980C108G30	PARTS-LIST		3	PCS
						L980C108G40				PCS
						U283S017H17	FUSE	5A-UL	2	PCS
						U283S022H28	FUSE	5A-SEMKO	2	PCS
						U283S017H16	FUSE	4A-UL	2	PCS
						U283S022H22	FUSE	BLK	2	PCS
						L243C080H73	LEAD, S, P GND	BRN	2	PCS
						L243C081H48	S, P L	RED	1	PCS
						L243C082H50	S, P R	25B817(E)	2	PCS
						L260D063H02	TRANSISTOR, Q429	2SD1047(E)	2	PCS
						L260D064H02	Q427	2S8649A(C)	2	PCS
						L260D021H05	Q426	2SD669A(C)	2	PCS
						L260D024H05	Q417			PCS
						U053S271H05	SOLDER-RESIN		2.55	G
						L241A039H02	PCB-AMP		1	PCS
						L541C017H01	ANGLE-PCB		1	PCS
						L565B005H01	HEAT SINK		10	PCS
						U680S322H03	WASHER-SPRING	3	10	PCS
						U680S302H03	WASHER-TOOTHED	M3	10	PCS
						U670S0201H02	NUT-BS	3	10	PCS
						U667S001H05	BOLT		5	PCS
						U656S263H23	ANGLE/HEAT SINK FIX	T-SCREW 2-3*6		PCS

FR	GP	UK	EU	AS	SA	JP	PARTS NUMBER	DESCRIPTION	SPECIFICATION Q'TY	UNIT
US	CN	WG	EP	UT	JP		L703B033G50			PCS
							L703B033G60			PCS
							L703B033G70			PCS
							L703B033G80			PCS
							L703B033G90	PCB-POST ASSY		PCS
							L241B121G01			PCS
							L241B121G02	SCREW-B, SW#2 POST#4	M3*6	6
							U650S06H19	NUT, BIND POST	M3	4
							U670S00H02	PCB-PCA JACK	ASSY	1-3*8
							L241C069G01			PCS
							U656S16H24	T-SCREW, PCA JACK FIX		2
							L582A011H01	COVER-BACK		PCS
							L582A011H02			PCS
							L582A011H03			PCS
							L242F501H01	POWER-CORD		PCS
							U242C872H06			PCS
							U242C809H19			PCS
							L242Y013H01			PCS
							L242C31H01			PCS
							L449Y002H01	SOCKET		PCS
							L840D009H01	COVER-AC SOCKET		PCS
							L431Y013H01	SW-SLIDE		PCS
							L431Y016G01	AC CORD TAG		PCS
							L851D063H01			PCS
							L851D070H01	CLAMPER	BRN	1
							L540D501H01	LEAD	BLU	2
							U243C421H10			1.6
							L243C066H28	SOLDER-RESIN		0.4
							U053S271H05			PCS
							U053S271H05	SW FIX PLATE		1
							L703D027H01	LABEL-DIP		1
							L851B004H08	TERMINAL-SP		1
							L452C001G01			PCS
							L452C001G02	PCB-AMP, POST USE		PCS
							L241A039H13	HAND-POST		PCS
							L704C013H01			PCS
							L704C013H02			PCS
							L704C013H04	HOLDER-POST		PCS
							L541B018H01	POST		PCS
							L685C001H01	HAND-POST		PCS
							L685C002H01	WASHER-POST		PCS
							L680C006H01	NUT		PCS
							U670S003H02	PCB-SUB		PCS
							L241C068H01	PCA JACK	M3	1
							L241C068H11	JACK-PCA		1
							L440Y016H01	LEAD-SHIED	BLU	1
							L242C096H26			1

FR	GP	UK	EU	AS	SA	JP	PARTS NUMBER	DESCRIPTION	SPECIFICATION Q'TY	UNIT
US	CN	WG	EP	UT	JP		L242C076H35	LEAD-SHIELD	BLU	1
							L242D507H08	LEAD		1
							L582A001H01	CHASSIS-MAIN		1
							L851D071H02	LABEL-WARNING		1
							U650S06H19	SCREW-B, SW-POWER FIX	M3*6	2
							L432Y517H01	SW-PUSH		1
							L230Y005H03	COVER-CAPACITOR	400V 472M	1
							U140Y007H07	C-CERAMIC, C521	BLU	1
							U243C426H39	LEAD	BRN	1
							U243C421H34	CONNECTOR		1
							L230Y003H01			2
							L230Y003H01	TUBE-VINYL	35 DIA BLK	0.65
							U073S722H65	PCB-SUB, POWER SW		1
							L241C068H12	BANK		1
							U838S101H03	TUBE-UL, 18MM#1	PCS	M/M
							L073S001H23	BOND-3M		18
							L085D002H01	TAPE VINYL	11 DIA	0.1
							U073S722H23	LOCK-TIGHT		0.15
							U085S093H02	TRANS-POWER		0.6
							L350Y083H01			1
							L350Y085H01			1
							L350Y086H01			1
							L350Y087H01			1
							L547B005H01	FRAME(L)		1
							U680S322H04	WASHER-TOOTHED		1
							U650S063H95	SCREW-B, TRANS FIX	M4*5	4
							L230Y003H01	CONNECTOR		3
							L980C108G30	PARTS-LIST		4
							U283S017H17	FUSE	5A-UL	2
							U283S022H28	FUSE	5A-SEMKO	2
							U283S017H16	FUSE	4A-UL	2
							U283S022H22	FUSE	4A-SEMKO	2
							L243C080H73	LEAD, S, P GND	BLK	2
							L243C081H48	S, P L	BRN	1
							L243C082H50	TRANSISTOR, Q429	Q430	2
							L260D063H02	Q427 Q428	2SD1047(E)	2
							L260D064H02	Q425 Q426	2SD649A(C)	2
							L260D021H05	Q417 Q418 Q423 Q424	2SD669A(C)	4
							U053S271H05	SOLDER-RESIN		2.55
							L241A039H02	PCB-AMP		1
							L541C017H01	ANGLE-PCB		1
							L565B005H01	HEAT SINK		1
							U680S322H03	WASHER-SPRING	3	10
							U670S020H02	NUT-B5	M3	10
							U667S001H05	BOLT	3	10
							U665S263H23	ANGLE/HEAT SINK FIX	T-SCREW 2-3*6	5

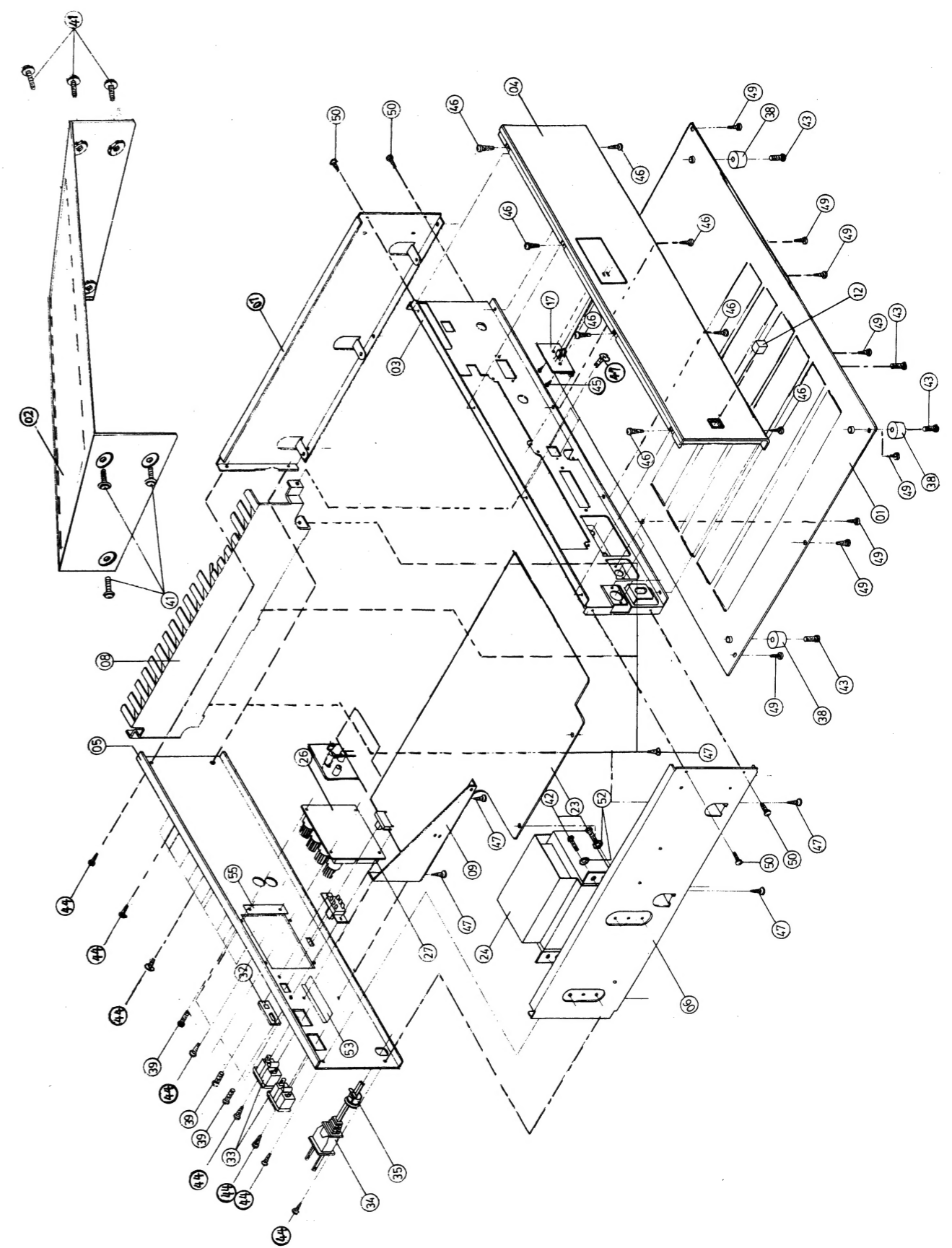
FR	GP	UK	EU	AS	SA	JP	PARTS NUMBER	DESCRIPTION	SPECIFICATION Q'TY	UNIT
US	CN	WG	EP	UT	JP		U656S263H23	TR FIX(ON SMALL HEAT SINK) 2-3*6		4
							L242C076H35	LEAD-SHIELD, RD		1
							L243C299H05	SOFT CLIPPING	WHT	1
							L243C299H05	LEAD	WHT	1
							U070S670H10	SVGS-UL	10 DIA	0.5
							L431Y014H01	SW-SLIDE	JW401	1
							U053S271H04	SOLDER-RESIN		13
							U243D200H01	W314, 315, 316, 317, 318, 319	LEAD-JP, L:10	0.3
							U243D200H01	W320, 321, 322, 323, 324, 325	L:10	0.3
							U243D200H01	W326, 327, 328, 329, 330, 331	L:10	0.3
							U243D200H01	W332, 333, 334, 335, 336, 337	L:10	0.3
							U243D200H01	W338, 340, 341, 342, 345, 346	L:10	0.3
							U243D200H01	W347 W338 W252	L:10	0.15
							L103Y214H52	R-CARBON, R471, 472	1/4W 1-J	2
							L103Y214H64	R425, 426, 427, 428, 429, 430	1/4W 18-J	6
							L103Y214H64	R431 R432	1/4W 18-J	2
							L103Y214H01	R457 R458	1/4W 10-J	2
							L103Y214H06	R411 R414	1/4W 68-J	2
							L103Y214H07	R477 R478 R479 R480	1/4W 100-J	4
							L103Y214H11	R443 R444	1/4W 220-J	2
							L103Y214H13	R459 R460	1/4W 330-J	2
							L103Y214H15	R481 R482 R483 R484	1/4W 470-J	4
							L103Y214H16	R453 R454	1/4W 560-J	2
							L103Y214H17	R433 R434 R437 R438	1/4W 680-J	4
							L103Y214H19	R456 R455	1/4W 1K-J	2
							L103Y214H20	R435 R436 R439 R440	1/4W 1.2K-J	4
							L103Y214H21	R417 R418 R419 R420	1/4W 1.5K-J	4
							L103Y214H23	R407 R408 R409 R410	1/4W 2.2K-J	4
							L103Y214H24	R452	1/4W 2.7K-J	1
							L103Y214H28	R515 R516	1/4W 5.6K-J	2
							L103Y214H33	R489, 490, 491, 492, 493, 494	1/4W 15K-J	6
							L103Y214H38	R405 R406	1/4W 39K-J	2
							L103Y214H39	R-CARBON, R411, 442, 445, 446	1/4W 47K-J	4
							L103Y214H47	R401 R402	1/4W 220K-J	2
							L103Y214H48	R517 R518	1/4W 270K-J	2
							L264Y220H01	D401, 402, 403, 404, 435, 436	1/4W 440-J	4
							L264Y220H02	D415, 416, 425, 426, 427, 428	DIODE, 1N4148	6
							L140Y203H10	C-CERAMIC, C107 C408	50V 681K	2
							L140Y203H19	C417 C418 C419 C420	50V 22J	4
							L140Y203H35	C437 C438 C439 C440	50V 101J	4
							L140Y203H35	C449 C450 C451 C452	50V 101J	4
							L150Y308H47	C433 C434 C435 C436	50V 331J	4
							L150Y308H47	C441 C442 C443 C444	50V 331J	4
							L140Y203H15	C425 C426 C423 C424	50V 15J	4
							L140Y306H39	C501 C502 C503 C504	50V 223J	4
							L140Y306H45	C507 C508	50V 473K	2
							L140Y201H25	C445 C446 C447 C448	25V 104K	4
							L172Y306H02	C-POLY, C405 C406	50V 122J	2

FR	GP	UK	EU	AS	SA	JP	PARTS NUMBER	DESCRIPTION	SPECIFICATION	Q'TY	UNIT
US	CN	WG	EP	UT	JP		L172Y306H25	C427 C428	50V 104J	2	PCS
							U182S333H40	C-ELECT, C402 C403 C404	50V 1	2	PCS
							U182Y322H34	C421 C422	25V 10	2	PCS
							U182Y322H34	C411 C412 C413 C414	16V 22	2	PCS
							L182Y322H13	C490 C410	10V 47	2	PCS
							L450D0501H01	FUSE-HOLDER		8	PCS
							L260D037H01	Q405, 406, 407, 408, 409, 410	2SA9701(GR)	6	PCS
							L260D037H01	Q413 Q414 Q441 Q442	2SA9701(GR)	4	PCS
							L260D038H01	Q401, 402, 403, 404, 411, 412	2SC2240(GR)	6	PCS
							L260D038H01	Q415 Q416 Q439 R440	2SC2240(GR)	4	PCS
							L260D021H05	Q435 Q436	2SB649A(C)	2	PCS
							L260D021H05	Q437 Q438	2SB669A(C)	2	PCS
							L260D039H01	Q421 Q422	2SA1360(V)	2	PCS
							L260D060H01	Q419 Q420	2SC4423(V)	2	PCS
							L260D061H03	Q431 Q432	2SB826	2	PCS
							L260D062H03	Q433 Q434	2SD1062	2	PCS
							L565D502H01	RADIATOR		4	PCS
							U264S010H01	D417 D418 D419 D420	DIODE, 1SS81	4	PCS
							U164D022H01	D421 D422 D423 D424	GFD30(B)	4	PCS
							L264C003H16	D407 D408 D409 D410	UZ-3.9B	4	PCS
							L164C003H20	D411 D412 D413 D414	UZ-4, 7B	4	PCS
							L264C003H36	D433 D434 D431 D432	UZ-8, 2B(M)	4	PCS
							L264C003H53	D405 D406	UZ-15B(L)	2	PCS
							L264D017H01	BD501	PB153N	1	PCS
							L264D018H01	BD501	PBL403	1	PCS
							L422Y001H14	BREAKER, BK-1, BK-2	A-40	2	PCS
							L127Y003H02	VR, VR403 VR404	B1K	2	PCS
							L127Y003H07	SVR, VR401 VR402	B10K	2	PCS
							L361Y023H01	COIL SPRING		2	PCS
							L265Y001H06	PTC	RED 185A	2	PCS
							U685S223H01	PIN		5	PCS
							U243S001H04	R349 R350 R351 R352	LEAD-JP, L1:5	0.14	M
							U103S017H13	W-CARBON, R513 R514	1/4W 330-J	2	PCS
							U103S017H24	R451	1/4W 2.7K-J	1	PCS
							L103Y022H62		1/4W 1-J	0.1	PCS
							L103Y022H31	R520	1/4W 10K-J	1	PCS
							L103Y041H30	R413 R414 R423 R424	1/2W 8.2K-J	4	PCS
							L103Y041H27	R475 R476	1/2W 4.7K-J	2	PCS
							L103Y041H34	R469 R470	1/2W 18K-J	2	PCS
							U103S007H01	R-METER, R501 R502	1W 10-J	2	PCS
							U103S007H35	R493 R494 R495 R496	1W 6.8K-J	4	PCS
							U103S007H38	R497 R498 R499 R500	1W 12K-J	4	PCS
							U103S007H39	R447 R448 R449 R450	1K 15K-J	4	PCS
							U103S140H60	R-CARBON, R461, 462, 463, 464	1/3W 3.3-J	4	PCS
							U103S140H06	R465 R466 R467 R468	1/3W 68-J	4	PCS
							U103S140H19	R485 R486 R487 R488	1/3W 1K-J	4	PCS
							U105S006H46	R-METAL, R520, 521	2W 10-J	2	PCS
							U140S005H27	C-CERAMIC, C526 C527	50V 103Z	2	PCS
							U182S022H68	C-ELECT, C453, 454, 455, 456	50V 100	4	PCS

FR GP UK EU AS SA US CN WG EP UT JP 2240PE EXPLODED LIST

ITEM	PARTS NO.	NAME	Q'TY
01	L380A002H01	COVER BOTTOM	1
02	L361A010H01	CABINET	1
03	L382A001H01	CHASSIS, FRONT SUB	1
04	L702A047H01	PANEL, FRONT	1
05	L582A011H01	PANEL, REAR	1
06	L582A011H01	PANEL, REAR	1
07	L582A011H01	PANEL, REAR	1
08	L582A011H01	PANEL, REAR	1
09	L582A011H01	PANEL, REAR	1
10	L582A011H01	PANEL, REAR	1
11	L582A011H01	PANEL, REAR	1
12	L582A011H01	PANEL, REAR	1
13	L582A011H01	PANEL, REAR	1
14	L582A011H01	PANEL, REAR	1
15	L582A011H01	PANEL, REAR	1
16	L582A011H01	PANEL, REAR	1
17	L582A011H01	PANEL, REAR	1
18	L582A011H01	PANEL, REAR	1
19	L582A011H01	PANEL, REAR	1
20	L582A011H01	PANEL, REAR	1
21	L582A011H01	PANEL, REAR	1
22	L582A011H01	PANEL, REAR	1
23	L582A011H01	PANEL, REAR	1
24	L582A011H01	PANEL, REAR	1
25	L582A011H01	PANEL, REAR	1
26	L582A011H01	PANEL, REAR	1
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91	L582A011H01	PANEL, REAR	1
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94	L582A011H01	PANEL, REAR	1
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96	L582A011H01	PANEL, REAR	1
97	L582A011H01	PANEL, REAR	1
98	L582A011H01	PANEL, REAR	1
99	L582A011H01	PANEL, REAR	1
100	L582A011H01	PANEL, REAR	1

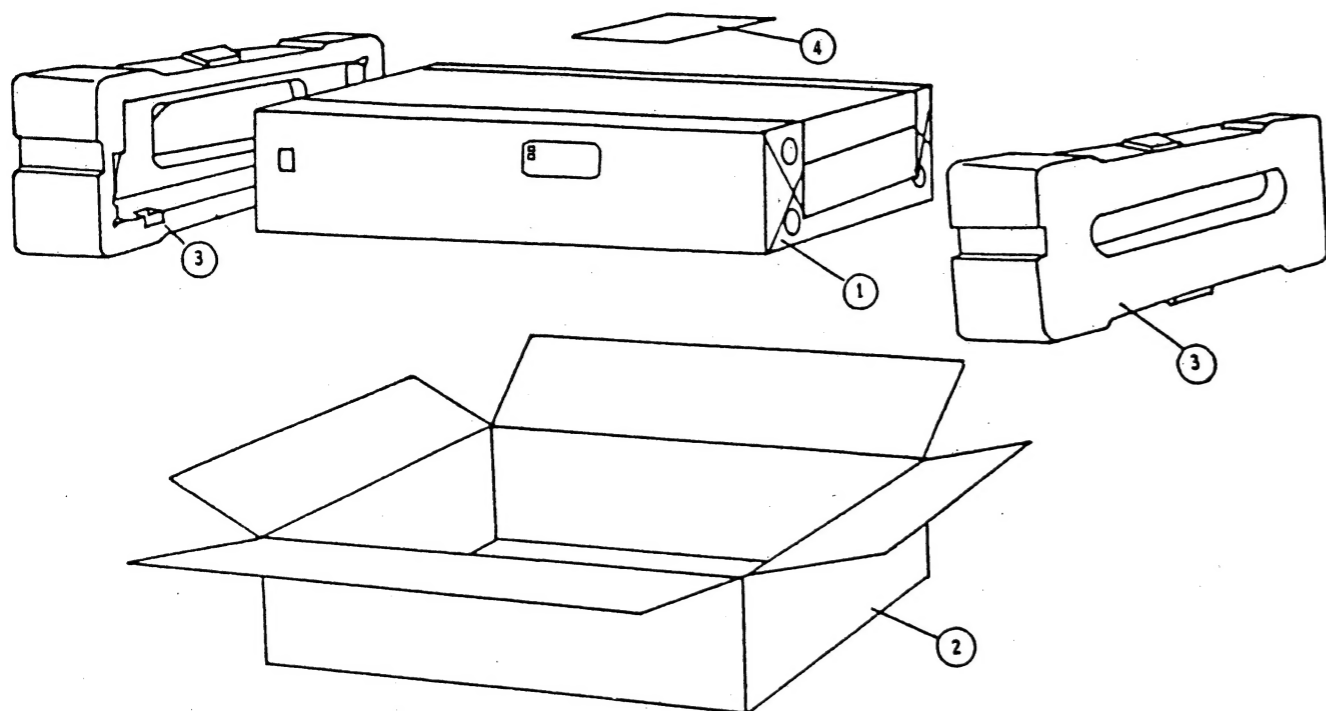
EXPLODED VIEW



# SERVICE MANUAL

## 2240PE POWER AMPLIFIER

### PICKING DIAGRAM



2240PE PACKING LIST

ITEM	NUMBER	NAME	Q'TY
1	L831D002H01	Bag-Poly	1
2	L800D003H05	Carton Individual	1
3	L813A006H01	Styro Packing	2
4	L871B003H75	Instruction	1
	OR L871B004H42	Instruction, WG only	

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